Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09531-005002	Application No. 09/803,810
Information Disclosur Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Gary L. Nelsestuen	
		Filing Date March 12, 2001	Group Art Unit 1653

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
HS	AA	5,093,317	03/03/92	Lewis	514	12	
HS	AB	5,288,629	02/22/94	Berkner	435	240.2	
HS	AC	5,504,064	04/02/96	Morrissey et al.	514	8	
HS	AD	5,516,640	05/14/96	Watanabe	435	7.4	
HS	AE	5,580,560	12/03/96	Nicolaisen et al.	424	94.64	
HS	AF	5,788,965	08/04/98	Berkner et al.	424	94.64	
HS	AG	5,817,788	10/06/98	Berkner et al.	536	23.2	
HS	AH	5,824,639	10/20/98	Berkner	514	12	
HS	AI	5,833,982	11/10/98	Berkner et al.	424	94.64	
HS	AJ	5,861,374	01/19/99	Berkner et al.	514	8	
HS	AK	6,017,882	01/25/00	Nelsestuen	514	12	

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes	Translation No
HS	AL	0 296 413	12/28/88	EPO	—	—		
HS	AM	0 354 504	02/14/90	EPO	—	—		

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
HS	AN	Evans et al., "How Important are proline 22 and the 41-45 Helical stack to Membrane Binding by Bovine Prothrombin?", Protein Sci., 1996, 5:Suppl. 1, 163, Abstract, #606-S
HS	AO	Broze Jr. et al., "Monoclonal Anti-human Factor VII Antibodies," J. ~~Can.~~ Clin. Invest., 1985, 76:937-946
HS	AP	Christiansen et al., "Hydrophobic Amino Acid Residues of Human Anticoagulation Protein C That Contribute to Its Functional Binding to Phospholipid Vesicles," Biochem., 1995, 34:10376-10382
HS	AQ	Zhang et al., "Role of Individual y-Carboxyglutamic Acid Residues of Activated Human Protein C in Defining its In Vitro Anticoagulant Activity," Blood, 1992, 80(4):942-952
HS	AR	Ratcliffe et al., "The Importance of Specific y-Carboxyglutamic Acid Residues in Prothrombin," J. Biol. Chem., 1993, 268(32):24339-24345
HS	AS	Persson et al., "Site-directed mutagenesis but not y-carboxylation of glu-35 in factor Vlla affects the association with tissue factor," FEBS Letters, 1996, 385(3):241-243
HS	AT	Shah et al., "Manipulation of the membrane binding site of vitamin K-dependent proteins: Enhanced biological function of human factor VII," Proc. Natl. Acad. Sci. USA, 1998, 95(8):4229-4234

Examiner Signature	Date Considered
	5.21.03

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Other Documents (include Author, Title, Date, and Place of Publication)

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	AU	Zhang et al., "The Contributions of Individual y-Carboxyglutamic Acid Residues in the Calcium-dependent Binding of Recombinant Human Protein C to Acidic Phospholipid Vesicles," J. Biol. Chem., 1993, 268(16):12040-12045
	AV	Dahlback, "Inherited Thrombophilia: Resistance to Activated Protein C as a Pathogenic Factor of Venous Thromboembolism," Blood, 85(3):607-614
	AW	Bauer, "Treatment of Factor VII Deficiency with Recombinant Factor VIIa," Haemostasis, 1996, 26(Suppl. 1):155-158
	AX	Arnljots et al., "Prevention of experimental arterial thrombosis by topical administration of active site-inactivated factor VIIa," J. Vasc. Surg., 1997, 25(2):341-346
	AY	Fiore et al., "The Biochemical Basis for the Apparent Defect of Soluble Mutant Tissue Factor in Enhancing the Proteolytic Activities of Factor VIIa," J. Biol. Chem., 1994, 269(1):143-149
	AZ	Furie et al., "The Molecular Basis of Blood Coagulation," Cell, 1988, 53:505-518
	AAA	Hedner et al., "Recombinant Activated Factor VII in the Treatment of Bleeding Episodes in Patients with Inherited and Acquired Bleeding Disorders," Transfus. Med. Rev., 1993, 7(2):78-83
	ABB	Hope et al., "Production of large unilamellar vesicles by a rapid extrusion procedure. Characterization of size distribution, trapped volume and ability to maintain a membrane potential," Biochem. Biophys. Acta., 1985, 812:55-65
	ACC	Huang, "Studies on Phosphatidylcholine Vesicles. Formation and Physical Characteristics," Biochem., 1969, 8(1):344-352
	ADD	Lu et al., "The Prothrombinase Reaction: "Mechanism Switching" between Michaelis-Menten and Non-Michaelis-Menten Behaviors," Biochem., 1996, 35(25):8201-8209
	AEE	Matsubara et al., "A Receptor Tyrosine Kinase, Sky, and Its Ligand Gas 6 are Expressed in Gonads and Support Primordial Germ Cell Growth or Survival in Culture," Dev. Biol., 1996, 180:499-510
	AFF	McDonald et al., "Comparison of Naturally Occurring Vitamin K-Dependent Proteins: Correlation of Amino Acid Sequences and Membrane Binding Properties Suggests a Membrane Contact Site," Biochem., 1997, 36:5120-5127
	AGG	McDonald et al., "Ionic Properties of Membrane Association by Vitamin K-Dependent Proteins: The Case of Univalency," Biochem., 1997, 36(50):15589-15598
	AHH	Nakagaki et al., "Initiation of the Extrinsic Pathway of Blood Coagulation: Evidence for the Tissue Factor Dependent Autoactivation of Human Coagulation factor VII," Biochem., 1991, 30(45):10819-10824
	AII	Nelsestuen et al., "Equilibria Involved in Prothrombin-and Blood-Clotting Factor X-Membrane Binding," Biochem., 1977, 16(19):4164-4171
	AJJ	Nicolaes et al., "A Prothrombinase-based Assay for Detection of Resistance to Activated Protein C," Thromb. Haemost., 1996, 76(3):404-410
	AKK	Nicolaisen et al., "Immunological Aspects of Recombinant Factor VIIa (rFVIIa) in Clinical Use," Thromb. Haemost., 1996, 76(2):200-204
	ALL	Petersen et al., "Quenching of the Amidolytic Activity of One-Chain Tissue-Type Plasminogen Activator by Mutation of Lysine-416," Biochem., 1990, 29(14):3451-3457
	AMM	Rezaie et al., "The Function of Calcium in Protein C Activation by Thrombin and the Thrombin-thrombomodulin Complex Can Be Distinguished by Mutational Analysis of Protein C Derivatives," J. Biol. Chem., 1992, 267(36):26104-26109

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HS	ANN	Schulman et al., "Feasibility of Using Recombinant Factor VIIa in Continuous Infusion," Thromb. Haemost., 1996, 75(3):432-436
HS	AOO	Shen et al., "Enhancing the Activity of Protein C by Mutagenesis to Improve the Membrane-Binding Site: Studies Related to Proline-10," Biochem., 1997, 36(51):16025-16031
HS	APP	Sorensen et al., "Incorporation of an Active Site Inhibitor in Factor VIIa Alters the Affinity for Tissue Factor," J. Biol. Chem., 1997, 272(18):11863-11868
HS	AQQ	Thomsen et al., "Pharmacokinetics of Recombinant Factor VIIa in the Rat – A Comparison of Bio-, Immuno- and Isotope Assays," Thromb. Haemost., 1993, 70(3):458-464
HS	ARR	Vallette et al., "Construction of mutant and chimeric genes using the polymerase chain rection," Nucleic Acids Res., 1989, 17(2):723-733
HS	ASS	Welsch et al., "Amino-Terminal Alanine Functions ina Calcium-Specific Process Essential for Membrane Binding by Prothrombin Fragment 1," Biochem., 1988, 27(13):4939-4945
HS	ATT	Freedman et al., "Identification of the Phospholipid Binding Site in the Vitamin K-dependent Blood Coagulation Protein Factor IX," J. Biol. Chem., 1996, 271(27):16227-16236
HS	AUU	Smirnov et al., "A Chimeric Protein C Containing the Prothrombin Gla Domain Exhibits Increased Anticoagulant Activity and Altered Phospholipid Specificity," J. Biol. Chem., 1998, 273(15):9031-9040
HS	AVV	Perera et al., "*Trans-Cis* Isomerization of Proline 22 in Bovine Prothrombin Fragment 1: A Surprising Result of Structural Characterization," Biochem., 1998, 37(31):10920-10927

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